

Date: Thu, 21 Oct 93 04:30:33 PDT  
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>  
Errors-To: Ham-Equip-Errors@UCSD.Edu  
Reply-To: Ham-Equip@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Equip Digest V93 #78  
To: Ham-Equip

Ham-Equip Digest                      Thu, 21 Oct 93                      Volume 93 : Issue    78

Today's Topics:

                    Autopatching  
                    External speaker/microphone  
                    GAP verticals (2 msgs)  
                    Heathkit HW/P-73P power supply?  
                    Info on Kenwood MC85 desk mic  
                    Kenwood th78a  
                    Modifications for Yaesu 2700?  
                    Old Yazoo all mode 2M xcvr  
                    V/UHF xcvs and car problems?  
                    W&W Associates: any good?  
                    W&W Associates Batteries, etc...

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>  
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 19 Oct 93 22:52:47 MDT  
From: dog.ee.lbl.gov!hellgate.utah.edu!cc.usu.edu!sljx0@network.ucsd.edu  
Subject: Autopatching  
To: ham-equip@ucsd.edu

In article <29m5gi\$ls8@noc.usfca.edu>, callis@noc.usfca.edu (Kim C. Callis)  
writes:

> Anyone with a good knowledge of setting up autopatch, what the best  
> equipment would be to purchase for a personal xband autopatch, would you  
> please e-mail me at the address below.

>

> --

```
> *****
> * Kim C. Callis *
> * Univ. of San Francisco, San Francisco, CA *
> * EMAIL: callis@usfca.edu *
> *****
> LINUX: Right now! The choice of a new generation....
>
```

For cross band or repeater (full duplex auto-patch) I will recommend Connect System CS-800. Our club use it for our repeater 146.720 (-) 449.625 for autopatch link to valley from 9800 feet mountain. they sell for around \$300.

and if you are interesting in Simplex auto-patch I recommend connect system CS-900. they have 1/2 second voice delay circuit build in. if you are going to use for your own personal system, this setup is cheaper. cs-900 sell for around \$350.

AA70L

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Date: Wed, 20 Oct 1993 17:38:59 GMT  
From: swrinde!elroy.jpl.nasa.gov!usc!howland.reston.ans.net!pipex!uknet!mcsun!news.inesc.pt!animal.inescn.pt!ciup2.ncc.up.pt!brigite.ci.ua.pt!etruben@network.ucsd.edu  
Subject: External speaker/microphone  
To: ham-equip@ucsd.edu

I own a Yaesu FT-411 handheld. It has EAR and a MIC socket at the top. I think the EAR carries only the output audio to the speaker, but the MIC carries the audio from the microphone and also the PTT line. My question is: How does the radio knows that the PTT was pressed ?

Thanks in advance,

--  
Ruben Mendes ] Dept. Electronica e Telecomunicacoes  
E-Mail : etruben@zeus.ci.ua.pt] Universidade de Aveiro  
Ham Callsign: CT1ETZ ] 3800 Aveiro  
Phone : +351 34 28032 ] PORTUGAL

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Date: 20 Oct 1993 14:36:12 GMT  
From: swrinde!elroy.jpl.nasa.gov!usc!howland.reston.ans.net!spool.mu.edu!

nigel.msen.com!caen!nic.umass.edu!noc.near.net!jericho.mc.com!fugu!  
levine@network.ucsd.edu  
Subject: GAP verticals  
To: ham-equip@ucsd.edu

>

>The R7 is a quarter wave vertical without radials. There is a  
>box with some sort of balun and some short radials that must  
>form some sort of capacitive function. It does work. I had  
>to retune the traps in mine. Many posting here were having  
>similar problems. I don't know if Cushcraft ever fixed the problem.  
>

The R7 info is a slightly wrong.

The R7 is a halfwave antenna. The things you call radials are actually counterpoise elements (49" long). They isolate it from ground I believe.

Mine was perfect (with a slight difference in section lengths from the manual) on all bands right out of the box. I bought it two years ago, it replaced an R5. I worked about 200 countries on those 2 antennas. I have since built a tower with a tribander which is 5-6 S Units better than the R7, although I am keeping the R7 up for WARC bands and 40m.

How did you retune the sealed traps?

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Date: Wed, 20 Oct 1993 14:28:48 GMT  
From: butch!LMSC5.IS.LMSC.LOCKHEED.COM!6177630@uunet.uu.net  
Subject: GAP verticals  
To: ham-equip@ucsd.edu

The GAP IV for 160, 80, 40, and 20 meters is a fantastic antenna. On 160m it covers 100kc between 2 to 1 SWR points!! On 80, I work the east coast from California without strain, while before, with dipoles, could sometimes hear them but could not work them. On 160, I have worked my first DX and even broke the pileup to do it! On 40 and 20, it is comparable to my Hustler 6BTV, although occasionally the GAP will outperform it. I am extremely pleased with the antenna and would recommend it to anyone. 73 de Greg, N6GK

----- Original Article -----

Xref: butch rec.radio.amateur.antenna:182 rec.radio.amateur.equipment:178  
Newsgroups: rec.radio.amateur.antenna,rec.radio.amateur.equipment  
Path: butch!netcomsv!netcom.com!greg  
From: greg@netcom.com (Greg Bullough)  
Subject: GAP verticals  
Message-ID: <gregCF3G60.2q2@netcom.com>

Followup-To: rec.radio.amateur.antenna  
Organization: NETCOM On-line Communication Services (408 241-9760 guest)  
Date: Mon, 18 Oct 1993 13:01:11 GMT  
Lines: 17

In my ongoing quest for the best multiband verticals...

What are peoples' experiences with products by GAP? They seem to be employing the same principles as Cushcraft does in the R5 and R7, but at a much lower price.

Along the same lines; given the ability to put down radials, which would folks choose--- ---a 'half-wave' vertical of the center-fed variety, such as the R7, or a quarter wave trap vertical of about the same dimensions?

DeMaw claims the trap vertical is very bad at a quarter wave because of its being on the ground on virtually every band. The 1/2 wave gets around this problem by elevating the feed point, and hence the radiator somewhat.

Greg (WA6DCL/2)

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Date: Wed, 20 Oct 1993 01:58:53 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!math.ohio-state.edu!  
hobbes.physics.uiowa.edu!news.uiowa.edu!icaen.uiowa.edu!drenze@network.ucsd.edu  
Subject: Heathkit HW/P-73P power supply?  
To: ham-equip@ucsd.edu

I've got a question about the HW (or HP?)-73 (or 23) P power supply--it's the matching tube power supply which went with old heathkit kits such as the HW-101 tranceiver (which is what I got mine with). Can somebody tell me, what is the amprage rating of the two fuses in it? One OT around here who ran one for years insists they're 8-A fuses. Another insists that they're only 2-3A fuses. Can anybody find a copy of the manual and tell me who's right?

--  
\_\_ /| | Douglas J Renze, N0YVW |  
\ 'o.O' | +1 319 337 4664 | IN GOD WE TRUST  
=(\_\_\_)= | drenze@icaen.uiowa.edu | All Others Pay Cash  
U | Douglas-Renze@uiowa.edu |

-----  
Date: 20 Oct 93 10:25:51 GMT  
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!howland.reston.ans.net!math.ohio-

state.edu!cs.utexas.edu!not-for-mail@network.ucsd.edu  
Subject: Info on Kenwood MC85 desk mic  
To: ham-equip@ucsd.edu

Hello,

I picked up a Kenwood MC85 desk mic with compressor at a hamfest on Sunday. No manual. It has 3 switch selectable outputs, one of which is wired to a Kenwood mic plug. I'd like to adapt line 2 to my Yaesu FT747-GX, while preserving the Kenwood interface on line 1. The freq up/down buttons seem to be using some wierd logic levels, and the PTT line looks like it needs to be inverted. I guess the open-collector Yaesu style is a little too simple for the Kenwood folks :-) Or maybe it just needs some work.

Does anyone have a manual for this beast? I'd love to see a schematic. I'd really appreciate even a faxed copy of it. My fax at work is 215-721-5412.

Thanks,  
Joe N3PQY/AE  
(landisj@drager.com)

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Date: 20 Oct 93 02:45:13 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!sol.ctr.columbia.edu!  
news.kei.com!yeshua.marcam.com!zip.eecs.umich.edu!nova!prov7672@network.ucsd.edu  
Subject: Kenwood th78a  
To: ham-equip@ucsd.edu

I have a Kenwood th78a and i love it, all except for the owners manual. It deserves a lot more.

My question is...how do you get it to work as a repeater?  
the method in the manual does not work.

any help/hints/clues?

thanks in advance.

J D Provan N2WNU

--  
J D Provan (prov7672@nova.gmi.edu)  
mail for pgp public key  
-GMI does not hold the same opinions as me-

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Date: 19 Oct 93 13:49:21 GMT

From: ncrw2.ncr.com!ncrhub2!torynews!ncrlnk!ncrwic!donald!kthompso@uunet.uu.net  
Subject: Modifications for Yaesu 2700?  
To: ham-equip@ucsd.edu

levin@bbn.com (Joel B Levin) writes:

)I have just taken possession of a Yaesu (FT?-)2700 mobile dual band  
)rig. It's got some age on it, and doesn't (according to the manual)  
)do cross-band repeat, though it can do full-duplex using the two  
)bands.

I modified mine to do cross band repeat.  
Bring the busy (led) signal out to the mike jack on the "speech"  
line, assuming it does not have the voice option.  
Use a transistor switch to use the signal to key the PTT line.  
Run a 500k resistor from the speaker audio out to mike audio in and  
the volume control at about half way will give good levels.  
House the whole thing in a mike plug, no external cables.  
Set up the radio for "full duplex", receiving on one band and  
transmit on the other. Unplug your mike and plug in the cross band plug.  
This only works from one band to the other. Cross band from either band is  
possible with a little extra circuitry and explanation. Sent me your FAX number  
it you would like it.

)Also, is there something that can widen the range of received  
)frequencies beyond 144-150 and 440-450 Mhz?

Only the 2-meter can be "opened" and without retuning the VCO and PLL only  
go to 153 Mhz. :-(

Ken.

--  
Ken Thompson    N0ITL  
Disk Array Hardware Development  
Peripheral Products MPD-Wichita  
NCR Corp.    an AT&T company  
3718 N. Rock Road    Wichita, Ks 67226  
(316) 636-8783  
Ken.Thompson@wichitaks.ncr.com

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Date: 20 Oct 93 14:25:43 GMT  
From: ogicse!uwm.edu!cs.utexas.edu!not-for-mail@network.ucsd.edu  
Subject: Old Yazoo all mode 2M xcvr

To: ham-equip@ucsd.edu

Hi,

Anybody know anything about an old Yaesu all-mode 2 meter transceiver called an FT200A or FT201A? (I may be wrong here) I could have picked it up for about \$250 at a hamfest, and I may get the chance again on Sunday. It is about 12 years old, puts out 12-14 watts. It's got a real VF0, with about 12 xtal controlled channels too if you want to stuff it full o rocks. It also has an upgraded front end board from some English company that I can't remember either. The original board comes with the package.

I passed by this a couple of times, then later started thinking that it may be a good way to get into a little VHF DX and satellite work.

Any comments?

Joe - N3PQY/AE (landisj@drager.com)

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Date: 19 Oct 93 23:08:51 MDT

From: dog.ee.lbl.gov!hellgate.utah.edu!cc.usu.edu!sljx0@network.ucsd.edu

Subject: V/UHF xcvs and car problems?

To: ham-equip@ucsd.edu

In article <CF4HDF.JrF@world.std.com>, jwm@world.std.com (Jon W McCombie) writes:

> Trying again... I'm about to buy a new car and want to install a  
> 146/440 MHz transceiver in it. I have heard from various net.postings  
> and net.people that Toyotas are particularly susceptible to being  
> damaged by, say, 40W of VHF RF, and that Saturns are OK.

>

> I am specifically considering the Eagle Vision (a.k.a. Chrysler  
> Concorde/Dodge Intrepid) and the Volvo 850 sedan. I have asked the  
> dealers to check with their corporate technical support lines to tell  
> me of any known problems; however, I trust first-hand experience more  
> than dealer promises. If you have installed a ham transceiver in any  
> of these cars--with problems or without--I'd like to hear from you.  
> Please send e-mail to jwm@world.std.com. I will summarize if there is  
> interest.

>

> Thanks and 73 de

> Jon N1ILZ

I have Chrysler New Yorker 1986 I have installed 100 Watts HF and 50 Watts  
2 meter at trunk (drilled) 1/4 wave. I never had a any problems.

But I also help install 50 watts 2 meter 1/4 wave into 1988

Volks wagen Golf. At first I put antenna in front fender.

every time transmitter is keyed it slow down the motor finnnaly stop the motor.  
after several experiment, we find the radiation fron antenna into engine  
compartment is causing problem. So we moved antenna to top of roof  
in rear. it stop the problem.

good luck, hope this will help.

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Date: Wed, 20 Oct 93 18:38:14 GMT  
From: mnemosyne.cs.du.edu!nyx!dsharp@uunet.uu.net  
Subject: W&W Associates: any good?  
To: ham-equip@ucsd.edu

kevin.jessup <kevin.jessup@mixcom.mixcom.com> writes:

>A company called W&W associates advertises HT batteries  
>and battery chargers (Master Charger models I an II) in  
>QST.

>Has anyone purchased any of their equipment and are you  
>happy with it?

>In particular, does the Master Charger (which uses the  
>negative delta V technique) work reliably on you  
>batteries?

I've had good luck with W&W battery packs for my IC24AT. I have  
two 7.2v@1100MAH packs adn a 12v@600MAH from them. They fit nicely  
on the radio, and are better than the Icom packs, IMHO.

I've heard that the yaesu packs don't fit very well tho.

I picked up a Master Charger from W&W at the 1993 Hamvention (don't  
remember if its the model I or II, it is the rapid charge version)  
It works great on my batteries, even the one Icom pack that I own.

Hope that helps,

--

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Dave Sharp, NU8H | "Eagles may soar, but weasels  
Dayton, Ohio | don't get sucked into jet engines"  
Email: dsharp@nyx.cs.du.edu | -Unknown  
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Date: Wed, 20 Oct 1993 19:13:40 GMT



From: news.kpc.com!amd!netcomsv!netcom.com!bassett@decwrl.dec.com  
Subject: W&W Associates Batteries, etc...  
To: ham-equip@ucsd.edu

LORIT@SIUCVMB.SIU.EDU wrote:

<< Information about the 1 hr charger >>

: up eventually, I especially like the removeable sleeve idea. You can also get

Just to warn you, the "removable" cup or sleeve requires you to remove the 4 screws from the bottom and essentially disassemble the charger. I have one and like the electronics, but think that the mechanical design leaves lots to be desired when using two cups. I leave my unit without screws so I can change from Alinco to Yeasu batteries.

Regards,  
Greg

bassett@merlot.syntex.com

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Greg Bassett  
Syntex Corporation  
(415) 855-5825

bassett@merlot.syntex.com

KJ6EP @ N6QMY.#NOCAL.CA.USA.NA  
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End of Ham-Equip Digest V93 #78

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